

Title (en)

SURFACE TREATMENT LIQUID FOR PLATED STEEL SHEET TO BE HOT-PRESSED

Title (de)

OBERFLÄCHENBEHANDLUNGSFLÜSSIGKEIT FÜR PLATTIERTES, HEISSUPRESENDES STAHLBLECH

Title (fr)

LIQUIDE DE TRAITEMENT DE SURFACE POUR TÔLE D'ACIER PLAQUÉE DEVANT ÊTRE PRESSÉE À CHAUD

Publication

**EP 3305944 B1 20200513 (EN)**

Application

**EP 16803532 A 20160603**

Priority

- JP 2015114043 A 20150604
- JP 201606686 W 20160603

Abstract (en)

[origin: EP3305944A1] A surface treatment solution excellent in stability during storage forming a coating for treatment excellent in waterproofness, solvent resistance, and adhesion with a plated steel sheet and able to provide a surface treated steel sheet with hot-pressing lubricity, chemical convertability after hot-pressing, corrosion resistance after coating, and spot weldability, that is, a surface treatment solution for a plated steel sheet to be hot-pressed comprising a ZnO aqueous dispersion (A) and a water dispersible organic resin (B), wherein the ZnO aqueous dispersion (A) comprises water and ZnO particle size having 50 to 300 nm particles, the water dispersible organic resin (B) has a 5 to 45 mgKOH/g acid value and 5 to 300 nm emulsion particle size, and a mass ratio (W A /W B ) of a mass of ZnO particles in the ZnO aqueous dispersion (W A ) to a mass of solid content of the water dispersible organic resin (W B ) is 30/70 to 95/5.

IPC 8 full level

**C23C 28/00** (2006.01); **B21D 22/20** (2006.01); **C23C 2/12** (2006.01)

CPC (source: EP KR RU US)

**B21D 22/022** (2013.01 - KR RU US); **B21D 22/20** (2013.01 - KR RU US); **C08K 3/22** (2013.01 - KR); **C08K 7/18** (2013.01 - KR); **C09D 5/024** (2013.01 - KR RU US); **C09D 7/61** (2017.12 - KR RU US); **C09D 7/67** (2017.12 - KR RU US); **C09D 7/68** (2017.12 - KR US); **C09D 201/00** (2013.01 - KR); **C23C 2/12** (2013.01 - EP KR RU US); **C23C 2/16** (2013.01 - RU); **C23C 2/26** (2013.01 - EP); **C23C 28/00** (2013.01 - KR RU US); **B21D 22/022** (2013.01 - EP); **B21D 22/201** (2013.01 - EP); **B21D 22/208** (2013.01 - EP); **C08K 3/22** (2013.01 - US); **C08K 7/18** (2013.01 - US); **C08K 2003/2296** (2013.01 - KR US); **C08K 2201/005** (2013.01 - KR US)

Cited by

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